

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Patent
Docket No: 56949US002

In re Application of:

Erika Bellmann, Padiyath Raghunath, John P. Baetzold Group Art Unit:
Serial No.: 10/004,706

Filed: December 4, 2001

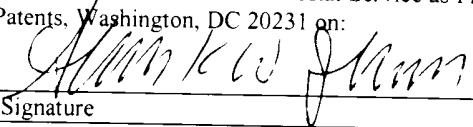
Examiner:

For: METHOD AND MATERIALS FOR TRANSFERRING A MATERIAL ONTO A
PLASMA TREATED SURFACE ACCORDING TO A PATTERN

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on:

March 12, 2002


Signature

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

Dear Sir:

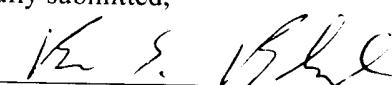
Pursuant to 37 C.F.R. §§ 1.97 and 1.98, enclosed please find a completed PTO-1449 form citing references submitted for consideration during examination of the above-referenced patent application. A copy of each of the references cited therein is also enclosed.

It is respectfully requested that the Examiner initial and return the enclosed PTO-1449 form in order to indicate that each of the references listed thereon has been considered in connection with the present application.

Registration Number 41,622	Telephone Number 651-736-3366
Date <u>March 12, 2002</u>	

Respectfully submitted,

By


Bruce E. Black

Office of Intellectual Property Counsel
3M Innovative Properties Company
P.O. Box 33427
St. Paul, Minnesota 55133-3427
Facsimile: (651) 736-3833



Table A

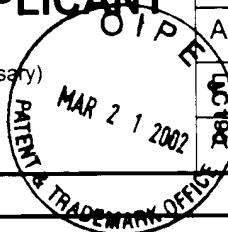
U.S. Serial Number	Filing Date	Docket No.	Title
09/662,845	9/15/00	55989USA5A.002	Electronically Active Primer Layers for Thermal Patterning of Materials for Electronic Devices
09/662,980	9/15/00	56001USA6A.002	Selective Thermal Transfer of Light Emitting Polymer Blends
09/844,100	4/27/01	56195USA7A.002	Method for Patterning Oriented Materials for Organic Electronic Displays and Devices
09/931,598	8/16/01	56948US002	Method and Materials for Patterning of an Amorphous, Non-Polymeric, Organic Matrix with Electrically Active Material Disposed Therein

DO NOT PUBLISH

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets if necessary)

Page 1 of 6



U.S. Patent Documents

Exam. Init.*	Cite No	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	A1	4,252,671	02/24/81	Smith	
	A2	4,387,156	07/07/83	Crawford et al.	
	A3	4,426,437	01/17/84	Fisch et al.	
	A4	4,599,298	07/08/86	Fisch	
	A5	4,623,896	11/18/86	Hausslein	
	A6	4,657,840	04/14/87	Fisch	
	A7	5,089,372	02/18/92	Kirihata et al.	
	A8	5,156,938	10/20/92	Foley et al.	
	A9	5,166,024	11/24/92	Bugner et al.	
	A10	5,171,650	12/15/92	Ellis et al.	
	A11	5,232,814	08/03/93	Graves et al.	
	A12	5,244,770	09/14/93	DeBoer et al.	
	A13	5,256,506	10/26/93	Ellis et al.	
	A14	5,308,737	05/03/94	Bills et al.	
	A15	5,326,619	07/05/94	Dower et al.	
	A16	5,351,617	10/04/94	Williams et al.	
	A17	5,387,496	02/07/95	DeBoer	
	A18	5,459,016	10/17/95	Debe et al.	
	A19	5,501,938	03/26/96	Ellis et al.	
	A20	5,521,035	05/28/96	Wolk et al.	
	A21	5,593,808	01/14/97	Ellis	
	A22	5,605,780	02/25/97	Burberry et al.	
	A23	5,612,165	03/18/97	Ellis	
	A24	5,621,131	04/15/97	Kreuder et al.	

*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets if necessary)

MAR 21 2002

Page 2 of 6

Application Number	10/004,706
Filing Date	December 4, 2001
First Named Inventor	Bellmann, Erika
Art Unit	-
Examiner Name	-
Attorney Case Number	56949US002

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
A25	5,622,795		04/22/97	Ellis	
A26	5,645,963		07/08/97	Chang	
A27	5,685,939		11/11/97	Wolk et al.	
A28	5,688,551		11/18/97	Littman et al.	
A29	5,691,098		11/25/97	Busman et al.	
A30	5,691,114		11/25/97	Burberry et al.	
A31	5,693,446		12/02/97	Staral et al.	
A32	5,695,907		12/09/97	Chang	
A33	5,708,130		01/13/98	Woo et al.	
A34	5,710,097		01/20/98	Staral et al.	
A35	5,725,989		03/10/98	Chang et al.	
A36	5,728,801		03/17/98	Wu et al.	
A37	5,747,217		05/05/98	Zaklika et al.	
A38	5,766,827		06/16/98	Bills et al.	
A39	5,828,488		10/27/98	Ouderkirk et al.	
A40	5,840,217		11/24/98	Lupo et al.	
A41	5,856,064		01/05/99	Chou	
A42	5,863,860		01/26/99	Patel et al.	
A43	5,869,350		02/09/99	Heeger et al.	
A44	5,882,774		03/16/99	Jonza et al.	
A45	5,897,727		04/27/99	Staral et al.	
A46	5,900,327		05/04/99	Pei et al.	
A47	5,929,194		07/27/99	Woo et al.	

*Examiner:

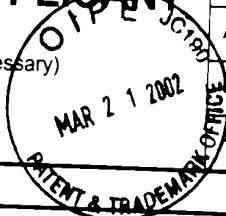
Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets if necessary)

Page 3 of 6



Application Number	10/004,706
Filing Date	December 4, 2001
First Named Inventor	Bellmann, Erika
Art Unit	-
Examiner Name	-
Attorney Case Number	56949US002

U.S. Patent Documents

Exam. Init. *	Cite No.	Document Number Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A48	5,976,698	11/02/99	Staral et al.	
	A49	5,981,136	11/09/99	Chang et al.	
	A50	5,994,028	11/30/99	Lee	
	A51	5,998,085	12/07/99	Isberg et al.	
	A52	6,030,715	02/29/00	Thompson et al.	
	A53	6,057,067	05/02/00	Isberg et al.	
	A54	6,099,994	08/08/00	Chang et al.	
	A55	6,114,088	09/05/00	Wolk et al.	
	A56	6,132,641	10/17/00	Rietz et al.	
	A57	6,140,009	10/31/00	Wolk et al.	
	A58	6,150,043	11/21/00	Thompson et al.	
	A59	6,169,163	01/02/01	Woo et al.	
	A60	6,190,826	02/20/01	Chang et al.	
	A61	6,194,119	02/27/01	Wolk et al.	
	A62	6,214,520	04/10/01	Wolk et al.	
	A63	6,221,543	04/24/01	Guehler et al.	
	A64	6,221,553	04/24/01	Wolk et al.	
	A65	6,228,543	05/08/01	Mizuno et al.	
	A66	6,228,555	05/08/01	Hoffend, Jr. et al.	
	A67	6,242,115	06/05/01	Thomson et al.	
	A68	6,242,152	06/05/01	Staral et al.	
	A69	6,270,934	08/07/01	Chang et al.	

*Examiner:

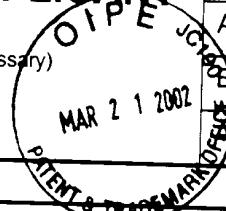
Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets if necessary)

Page 4 of 6



Application Number	10/004,706
Filing Date	December 4, 2001
First Named Inventor	Bellmann, Erika
Art Unit	-
Examiner Name	-
Attorney Case Number	56949US002

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	A70	6,270,944	08/07/01	Wolk et al.	
	A71	6,284,425	09/04/01	Staral et al.	

Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
	B1		WO 93/25392	12/23/93	PCT		
	B2		WO 95/17303	06/29/95	PCT		
	B3		WO 97/15173	04/24/97	PCT		
	B4		WO 98/03346	01/29/98	PCT		
	B5		WO 98/55561	12/10/98	PCT		
	B6		WO 99/13692	03/18/99	PCT		
	B7		WO 99/40655	08/12/99	PCT		
	B8		WO 99/46961	09/16/99	PCT		
	B9		WO 00/18851	04/06/00	PCT		Yes
	B10		WO 00/69649	11/23/00	PCT		
	B11		WO 00/70655	11/23/00	PCT		
	B12		WO 01/39986	06/07/01	PCT		
	B13		0 368 552 A2	5/16/90	EPO		
	B14		0 530 018 B1	4/22/98	EPO		

*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Page 5 of 6

RECEIVED
MAY 21 2002
PATENT & TRADEMARK OFFICE

Application Number	10/004,706
Filing Date	December 4, 2001
First Named Inventor	Bellmann, Erika
Art Unit	-
Examiner Name	-
Attorney Case Number	56949US002

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	Atreya, et al., "Effect of plasma treatment on the electrical and electroluminescent properties of poly(p-phenylene vinylene) light emitting diodes", <u>Polymer Degradation and Stability</u> , 63 (1999) pp. 53-59
	C2	Atreya, et al., "Stability studies of poly(2-methoxy-5-(2'-ethyl hexyloxy)-p-(phenylene vinylene) [MEH-PPV]", <u>Polymer Degradation and Stability</u> , 65 (1999) pp. 287-296
	C3	Chen, et al., "Recent Developments in Molecular Organic Electroluminescent Materials", <u>Macromol. Symp.</u> , 125, 1 (1997) pp. 1-48
	C4	Fujikawa, et al., "Energy Structures of Triphenylamine Oligomers", <u>Synthetic Metals</u> , 91, (1997) pp. 161-162
	C5	Grazulevicius, et al., "Charge-Transporting Polymers and Molecular Glasses", <u>Handbook of Advanced Electronic and Photonic Materials and Devices</u> , H.S. Nalwa (ed.), 10, (2001) pp. 233-274
	C6	Job et al., "Corona discharge: A doping method for polyaniline" <u>Applied Physics Letters</u> , Vol. 72 No. 25 (June 1998) pp. 3279-3882
	C7	Job et al., "Doping of polyaniline by corona discharge" <u>Journal of Applied Physics</u> , Vol. 87 No. 8 (April 2000) pp. 3878-3882
	C8	Kang et al., "Surface Modifications of Polyaniline Films by Graft Copolymerization", <u>Macromolecules</u> , (1992), 25 pp. 1959-1965
	C9	Kang et al., "Surface Modification and Functionalization of Polyaniline and Poly(3-Alkylthiophene) Films by Graft Copolymerization", <u>Synthetic Metals</u> , 55-57 (1993) pp. 1232-1237
	C10	Kang, et al., "Plasma treatment of polyaniline films: Effect on the intrinsic oxidation states", <u>J. Mater. Res.</u> , Vol. 11 No. 6, (Jun 1996) pp. 1570-1573
	C11	Kang et al., "Surface modified and functionalized polyaniline and polypyrrole films", <u>Synthetic Metals</u> , 84 (1997) pp. 59-60
	C12	Kang et al., "Surface Modification and Functionalization of Electroactive Polymer Films", <u>Polymers for Advanced Technologies</u> , 10 (1999) pp. 421-428

*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (modified)		Application Number	10/004,706
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	December 4, 2001
(Use as many sheets if necessary)		First Named Inventor	Bellmann, Erika
Page 6 of 6		Art Unit	-
		Examiner Name	-
		Attorney Case Number	56949US002

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C13	Kraft, et al., "Electroluminescent Conjugated Polymers-Seeing Polymers in a New Light", <u>Angew. Chem. Int. Ed.</u> , 37, (1998) pp. 402-428
	C14	Laurent, et al., "Comparison between Photo- and Electro-Induced Luminescence Spectra of Polyethylene" <u>IEEE 1995 Annual Report</u> , Conference on Electrical Insulation and Dielectric Phenomena (October 22-25, 1995) pp. 93-96
	C15	Loh, et al., "XPS Characterization of Surface Functionalized Electroactive Polymers" <u>Surface and Interface Analysis</u> , Vol. 24 (1996) pp. 597-604
	C16	Mori, et al., "High-field phenomena in poly-p-xylylene thin films: effects of plasma treatment", <u>J. Phys. D: Appl. Phys.</u> , 22 (1989) pp. 1518-1522
	C17	Nakazawa, et al., "Photo-Induced Memory Effect in Polyaniline/Polyvinylcarbazole Organic System", <u>Japanese Journal of Applied Physics</u> , Vol. 28, No. (Aug. 1989) pp. 1396-1401
	C18	Xie et al., "Surface-graft polymerization of doped polyaniline with hydrophilic monomers", <u>European Polymer Journal</u> , 36 (2000) pp. 509-517

*Examiner:	Date Considered:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	